

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	4118395
<b>Application Number:</b>	10737398
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	7625
<b>Title of Invention:</b>	APPARATUS AND METHOD FOR ADAPTIVELY MODULATING SIGNAL BY USING LAYERED TIME-SPACE DETECTOR USED IN MIMO SYSTEM
<b>First Named Inventor/Applicant Name:</b>	Young-Doo Kim
<b>Customer Number:</b>	08791
<b>Filer:</b>	Eric S. Hyman/Alexis Karriker
<b>Filer Authorized By:</b>	Eric S. Hyman
<b>Attorney Docket Number:</b>	51876P442
<b>Receipt Date:</b>	15-OCT-2008
<b>Filing Date:</b>	16-DEC-2003
<b>Time Stamp:</b>	14:57:47
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 1058
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## File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	51876p442_issuefee_101508.pdf	85110 65f0262c52d3c7050e6da7af0517122357c9b4	no	1

### Warnings:

### Information:

2	Fee Worksheet (PTO-06)	fee-info.pdf	33946 d90d746008b78c5b88f52c0b68c07f13a881d037	no	2
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### Warnings:

### Information:

Total Files Size (in bytes):	119056
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### New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

### National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

### New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.